ENTRANCE EXAMINATION FOR ADMISSION, MAY 2011.

M.Sc. (ELECTRONIC MEDIA)

COURSE CODE : 387

Register Number :

Signature of the Invigilator
(*with date*)

COURSE CODE : 387

Time : 2 Hours   Max : 400 Marks

Instructions to Candidates :

1. Write your Register Number within the box provided on the top of this page and fill in the page 1 of the answer sheet using pen.

2. Do not write your name anywhere in this booklet or answer sheet. Violation of this entails disqualification.

3. Read each question carefully and shade the relevant answer (A) or (B) or (C) or (D) in the relevant box of the ANSWER SHEET using HB pencil.

4. Avoid blind guessing. A wrong answer will fetch you −1 mark and the correct answer will fetch 4 marks.

5. Do not write anything in the question paper. Use the white sheets attached at the end for rough works.

6. Do not open the question paper until the start signal is given.

7. Do not attempt to answer after stop signal is given. Any such attempt will disqualify your candidature.

8. On stop signal, keep the question paper and the answer sheet on your table and wait for the invigilator to collect them.

9. Use of Calculators, Tables, etc. are prohibited.

1. Right to Information Act was enacted by Indian Parliament during

    (A) 2003   (B) 2004   (C) 2005   (D) 2006

2. Ten degree channel is located in

    (A) Black Sea   (B) Arabian Sea

    (C) Andaman Sea   (D) Tasman Sea of New Zealand

3. EDUSAT, the satellite dedicated to education in India was launched during

    (A) 2002   (B) 2004   (C) 2006   (D) 2008

4. University Grants Commission was established during

    (A) 1948   (B) 1952   (C) 1956   (D) 1958

5. The first President of India was

    (A) Dr. Maulana Abdul Kalam Azad   (B) Dr. Rajendra Prasad

    (C) Pandit Jawaharlal Nehru   (D) G.V. Mavalankar

6. The temperature of New York was 2°C in the morning. The next morning it was
    −2° C. What was decrease in temperature?

    (A) 3°C   (B) 4°C   (C) −4°C   (D) −3°C

7. The sum of two numbers is 22 & their difference is 4. The numbers are

    (A) 12 and 10   (B) 16 and 6   (C) 14 and 8   (D) 13 and 9

8. What is the next number in the following series? Please choose one correct answer
    1, 3, 6, 2, −1?

    (A) −1/3   (B) 2   (C) −3   (D) 4

9. A super fast bus starting from 'Chennai' and reaches 'Mahabalipuram' in 45 minutes
    with an average speed of 40 km/hr. If the speed is increased by 10 km/hr how much
    time it will

    (A) 36   (B) 32   (C) 25   (D) 28

10. The difference between 6 times and 8 times of a figure is 14. What is the figure?

    (A) 12   (B) 9   (C) 7   (D) 6

11. A student has to secure 40% marks to pass. He gets 150 marks and fails by 30 marks.
    What is the maximum mark?

    (A) 400   (B) 500   (C) 475   (D) 450

12. Find the next term of the series : 3,6,9,18,27,54...

    (A) 81   (B) 69   (C) 63   (D) 57

13. A person lost 10% when he sold goods at Rs. 153. For how much should he sell them to

    (A) 204   (B) 250   (C) 240   (D) 210

14. Rs. 1,581 is divided among A, B and C in the ratio 10 : 15 : 6. What is the share of B?

    (A) 306   (B) 765   (C) 700   (D) 510

15. If A's income is 25% more than B's income, then by how much percent is B's income less than A's income?

    (A) 30%   (B) 20%   (C) 15%   (D) 35%

16. A person sells two watches for Rs. 800 each. On one he lost 20% and on other he gained 20%. His gain or loss % is

    (A) 1% gain   (B) 1% loss   (C) 4% loss   (D) 4% gain

17. A monkey starts climbing up a tree 20 ft. tall. Each hour, it hops 3 ft. and slips back 2 ft. How much time would it take the monkey to reach the top?

    (A) 12 hours   (B) 18 hours   (C) 20 hours   (D) 22 hours

18. Thirty men take 20 days to complete a job working 9 hours a day. How many hours a day should 40 men work to complete the job?

    (A) $7\frac{1}{2}$ hours   (B) $8\frac{1}{2}$ hours   (C) 7 hours   (D) 8 hours

19. The average salary of three employee is 95 Rs. per week. If one employee earns 115 and other earns 65 rupees. how much will third be earn?

    (A) Rs. 90   (B) Rs. 110   (C) Rs. 105   (D) Rs. 95

20. The owner of an electronics shop charges his customer 25% more than the cost price. If a customer paid Rs. 11,500 for a television set, then what was the cost price of the television set?

    (A) Rs. 9,200   (B) Rs. 7,200   (C) Rs. 8,600   (D) Rs. 9,800

21. A student scores 64% marks in 6 papers of 150 marks each. He scores 25% of his total obtained marks in Hindi and English together. How much is his total score for both these papers?

    (A) 120   (B) 124   (C) 140   (D) 144

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22. The respective ratio of the ages of Richa and Shelly is 5 : 8. The ratio of their ages 10 years hence would be 7 : 10 respectively. What is the present age of Shelly?

(A) 45 years   (B) 40 years   (C) 35 years   (D) 30 years

23. P₅QR, P₄QS, P₃QT, —————,PQV

(A) PQW   (B) PQV₂   (C) P₂QU   (D) PQ₃U

24. CMM, EOO, GQQ, —————,KUU

(A) GRR   (B) GSS   (C) ISS   (D) ITT

25. Which state in India was the first one to put forth a dedicated Information Technology policy and when was it?

(A) Kerala in 1990   (B) Karnataka in 1997

(C) Tamilnadu in 1996   (D) Andhrapradesh 1995

26. What is the name of India's indigenous accounting package that has thwarted attempts by international software packages like Microsoft Money to gain control of the Indian market?

(A) Excel   (B) Tally   (C) SPSS   (D) Foxpro

27. Which prominent IT city in India is nicknamed Cyberabad?

(A) Hyderabad   (B) Bangalore   (C) Chennai   (D) Mumbai

28. 'Which was the first Indian movie to release its soundtrack on the Internet for sale before it being released offline via cassettes and CDs?

(A) Alaipayuthey   (B) 3 Idiots   (C) Gajini   (D) Sivaji

29. The longest river in the world is the

(A) Nile   (B) Ganges   (C) Krishna   (D) Yamuna

30. Highest mountain in the world is

(A) Mount Kilimanjaro   (B) Mauna Loa

(C) Everest   (D) Godwin Austen

31. The biggest desert in the world is the

(A) Thar Desert   (B) Sahara desert

(C) Arabian Desert   (D) Gobi Desert

32. The biggest delta in the world is the
    (A) Mississippi River Delta (B) Okavango Delta
    (C) Ganges Delta (D) Nile River delta

33. The permanent secretariat of the SAARC is located at
    (A) Kathmandu (B) Srilanka
    (C) India (D) Burma

34. The most famous painting of Pablo Picasso was
    (A) Evocation (B) Guernica
    (C) Le homard (D) Les musiciens

35. The largest library in the world
    (A) British Library (B) United states Library of Congress
    (C) National Library of India (D) National Library of France

36. The first novel ever written on a typewriter is
    (A) Tom Sawyer (B) The Chronicles of Narnia
    (C) Heart of Darkness (D) The Wonderful Wizard of Oz

37. Who invented the word "assassination"?
    (A) Ibsen (B) Bernard Shaw
    (C) Shakespeare (D) William Wordsworth

38. The first Industrial Revolution took place in
    (A) England (B) France (C) German (D) Sweden

39. World Environment Day is observed on
    (A) 2nd July (B) 5th June (C) 12th May (D) 5th August

40. The first British University to admit women for degree courses was
    (A) Leeds Metropolitan University (B) Durham University
    (C) London University (D) University of Wales

41. The Red Cross was founded by
    (A) Friedrich Born (B) Vieri Traxler
    (C) Nancy Malloy (D) Jean Henri Durant

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42. What is another name for 2D animation?

    (A) Morphing   (B) Tweening
    (C) Cell animation   (D) Optical illusion

43. A most basic skill a person requires to pursue an animation career is

    (A) Drawing   (B) Clay animation
    (C) Cutout animation   (D) Rotoscoping

44. Which Asian nation was the first to get a World Bank loan?

    (A) Pakistan   (B) China   (C) India   (D) Thailand

45. Who is the present RBI governor?

    (A) D. Subbarao   (B) Y. Venugopal Reddy
    (C) Bimal Jalan   (D) C. Rangarajan

46. The speed of light with the rise in the temperature of the medium

    (A) Increases   (B) Decreases
    (C) Remains unaltered   (D) Drops sharply

47. The gas predominantly responsible for Global warming is

    (A) Carbon dioxide   (B) Carbon monoxide
    (C) Nitrous oxide   (D) Nitrogen peroxide

48. Which of the following uses Non-conventional Source of Energy?

    (A) Kerosene lamp   (B) Wax candle
    (C) Solar lantern   (D) Torch

49. Electric current is measured by

    (A) Voltmeter   (B) Anemometer   (C) Commutator   (D) Ammeter

50. The hardest substance available on earth is

    (A) Platinum   (B) Diamond   (C) Quartz   (D) Gold

51. 2008 Olympic games were held in

    (A) China   (B) Greece   (C) Italy   (D) France

52. Vijendra Singh is the name associated with which of the following games?

    (A) Boxing   (B) Shooting

    (C) Archery   (D) Weight lifting

53. A person wants to contest election for the membership of Gram Panchayat, what should be his age?

    (A) 18 years or above   (B) 19 years or above

    (C) 21 years of above   (D) Minimum 25 years

54. Who summons the joint sitting of the Rajya Sabha and Lok Sabha?

    (A) President   (B) Speaker of the Lok Sabha

    (C) Chairman of the Rajya Sabha   (D) Prime Minister

55. The General who gave the firing order at Jallianwala Bag was

    (A) Tegart   (B) Cornwallis   (C) Simpson   (D) O. Dwyer

56. Gandhiji started Satyagraha in 1919 to protest against the

    (A) Rowlatt Act   (B) Salt Law

    (C) Act of 1909   (D) Jallianwala Bagh Messacre

57. Who invented the telephone?

    (A) Thomas Alva Edison   (B) Galileo

    (C) Alexander Graham Bell   (D) G. Marconi

58. In banking ATM stands for

    (A) Automated Tallying Machine   (B) Automatic Teller Machine

    (C) Automated Totalling Machine   (D) Automated Transaction of Money

59. Spinach leaves are rich source of

    (A) Vitamin A   (B) Iron   (C) Carotene   (D) Vitamin E

60. Which of these is not a mosquito borne disease?

    (A) Dengue fever   (B) Malaria   (C) Filariasis   (D) Goitre

61. The highest gallantry award in India is

    (A) Ashok Chakra   (B) Paramvir Chakra

    (C) Mahavir Chakra   (D) Param Vishista Chakra

62. The first Indian recipient of Nobel Prize in Literature is

   (A) R.K. Narayan   (B) Rabindranath Tagore

   (C) Sarojini Naidu   (D) C.V. Raman

63. When was the first underground railway (Metro Railway) started?

   (A) 1982   (B) 1989   (C) 1984   (D) 1992

64. Arjuna award is given for

   (A) Bravery in the battle field

   (B) Excellence in archery

   (C) Excellence in sports

   (D) Excellent service during emergency

65. The headquarters of the United Nations Union is located at

   (A) Geneva   (B) New York   (C) Rome   (D) Washington

66. Name the only Indian President who was the speaker of Lok Sabha also

   (A) Zakir Hussain   (B) Neelam Sanjeeva Reddy

   (C) Fakhruddin Ali Ahmed   (D) Giani Zail Singh

67. Which film has won 11 Oscar awards other than Titanic?

   (A) Ten Commandments   (B) Lord of the Rings

   (C) Harry Potter   (D) Ben Hur

68. Which city is known as the Manchester of South India"?

   (A) Hyderabad   (B) Bangalore   (C) Coimbatore   (D) Salem

69. The first e-mail was sent over the Internet in

   (A) 1992   (B) 1982   (C) 1972   (D) 1962

Directions (Questions 70-74) : In the table given below the production of music systems in different factories from the year 1996 to 2001 is shown. Study the table carefully and answer the questions given below based on it.

Yearly production of Music Systems in different factories (A-E)

Year	A	B	C	D	E
1996	25	16	32	8	19
1997	17	18	40	7	9
1998	15	27	39	9	10
1999	12	23	41	13	11
2000	20	14	40	5	21
2001	21	12	46	4	18

70. What was decrease in percentage of production of music system in factory D in 2001 as compared to 1990?

    (A) 80%   (B) 50%   (C) 25%   (D) 20%

71. What is the ratio of production of music systems in A factory in 2000 and in 1996 and 1998 taken together?

    (A) 1 : 1   (B) 1 : 2   (C) 1 : 4   (D) 2 : 3

72. What is the percentage of number of music systems produced in 1996 in A factory as compared to average number of music systems produced in the same factory during 1996-2001?

    (A) 115%   (B) 120%   (C) 121%   (D) 135%

73. In which of the given years there was maximum number of production of music systems.

    (A) 1996   (B) 1997   (C) 2000   (D) 2001

74. In which factory there was maximum production in all the given years?

    (A) A   (B) B   (C) C   (D) E

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75. The teacher ————— the syllabus by the end of the year

    (A) will have finished   (B) will be finished

    (C) will had finished   (D) will finish

76. He ————— this building for the last ten years.

    (A) owned   (B) owning   (C) had owned   (D) has owned

77. My father ————— working hard all his life.

    (A) Has been   (B) Have been   (C) Was   (D) Had been

78. When I woke up the sun —————

    (A) Had risen   (B) Has risen   (C) Had rose   (D) Have rise

79. The logarithmic form of 10^{-3} is

    (A) 0.3   (B) 0.03   (C) 0.001   (D) 0.0001

80. The value of 5^4 is

    (A) 20   (B) 125   (C) 525   (D) 625

81. A rectangle has an area equal to 100. sq. m. What would be its perimeter when it is made into a square?

    (A) 10 m   (B) 20 m   (C) 30 m   (D) 40m

82. Find out the average speed of a bicycle over a journey of 50 km, if its travels the first 10 km at 20 km/hour, the second 12 km at 1 hour, the third 24 km at 8 km/ hour and the remaining at 8 km/hour?

    (A) 5 km/h   (B) 8 km/h   (C) 10 km/h   (D) 12 km/h

83. An open box is to be made out of a piece of cardboard measuring 24 cm × 24 cm by cutting off equal squares from the corners and turning up the sides. What would be the correct height of the box for a maximum volume?

    (A) 2 cm   (B) 4 cm   (C) 8 cm   (D) 12 cm

84. Partners A, B, & C invested Rs. 17,600, Rs. 19,200 & Rs. 20,800 respectively. The ratio of their share in profit of business will be

(A) 11 : 12 : 13   (B) 12 : 13 : 14   (C) 13 : 14 : 15   (D) 10 : 20 : 30

85. Find two numbers whose sum is 24 and whose product is as large as possible.

(A) 6 & 4   (B) 12 & 12   (C) 14 & 10   (D) 16 & 8

86. 0.5 bh is the formula for computing the

(A) area of a square   (B) perimeter of a rectangle

(C) area of a triangle   (D) perimeter of a triangle

87. The surface area of a cube is 216 sq.m. What is its volume?

(A) 100   (B) 216   (C) 480   (D) 512

88. For making a stair-case steps, three cubes were used in each step to provide the required width. All the steps are raised from the ground. How many cubes are required to put 10 steps to reach the first floor?

(A) 95   (B) 165   (C) 185   (D) 225

89. If you are the ninth person in the queue starting from either end, the number of persons in the queue are

(A) 10   (B) 15   (C) 18   (D) 19

90. A rectangular Aluminium foil of 5 cm × 10 cm is rolled into a cylinder of height 10 cm. If the cost of painting is Rs. 2 per sq. cm, then the cost of painting the outer surface of the cylinder will be

(A) 400   (B) 200   (C) 150   (D) 100

91. Find the next number in the series 0,7,26,63

(A) 115   (B) 189   (C) 173   (D) 136

92. The number of times in a day the hour-hand and the minute-hand of a clock are at right angles is

(A) 44   (B) 48   (C) 24   (D) 12

93. 784 coconut trees are to be planted in a square plot. How many trees will be existing in each side?

(A) 25   (B) 26   (C) 28   (D) 29

94. Geetha's marks in four tests were 82, 80, 76 and 70. What mark she should get in the fifth paper in order to get an average of 80%.

(A) 92   (B) 88   (C) 96   (D) 90

95. One inch is equal to

(A) 2.54 cm   (B) 2.50 cm   (C) 2.60 cm   (D) 2.64 cm

96. If day before yesterday was Thursday, what day will be four days after tomorrow?

(A) Monday   (B) Thursday   (C) Sunday   (D) Wednesday

97. If A = 2, R = 5, S = 7, O = 3 and E = 4, the sum of the letters of which word will give the highest number

(A) SOAR   (B) EARS   (C) REAR   (D) OARS

98. Each letter of the alphabet from A to Z has been given a value from 1 to 26 serially. What is the value of the following word?

     ALPHABETS

(A) 65   (B) 84   (C) 57   (D) 79

99. The ratio between A's and B's ages two years ago was 3:2 and at present it is 7:5. Find B's present age?

(A) 8 years   (B) 10 years   (C) 12 years   (D) 14 years

100. How many times is 0.1 greater than 0.01?

(A) 100 times   (B) 10 times   (C) 1000 times   (D) 1 time